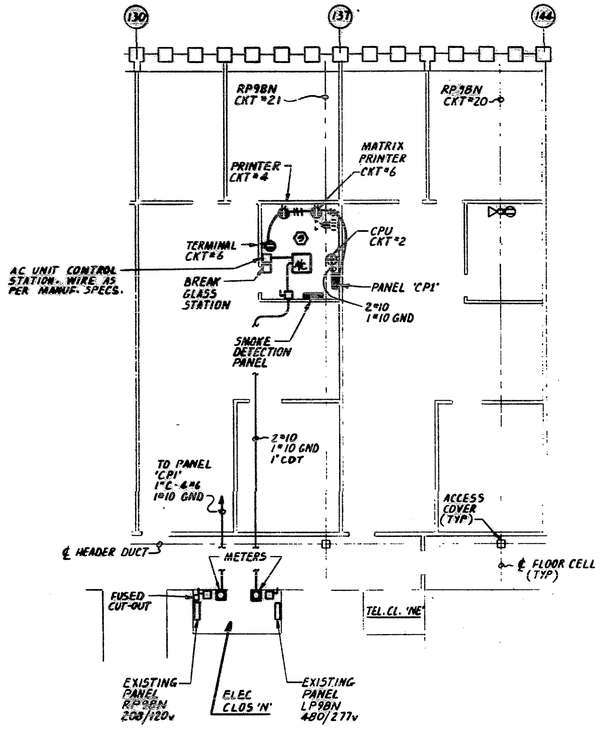


ELECTRICAL LEGEND

- EXISTING AFTERSET FITTING, COMBINITION TELEPHONE/DUPLEX RECEPTACLE TO REMAIN
- REMOVE EXISTING COMBINATION TELEPHONE/DUPLEX RECEPTACLE AND AFTERSET FITTING. INSTALL METAL SLUG TO PLUG CELL OPENING AND FILL CORE HOLE WITH CONCRETE ADJUSTED TO GRADE.
- WALL MOUNTED DUPLEX RECEPTACLE, 12" AFF. 125 V-20A, HUBBELL #5362.
- WALL MOUNTED RECEPTACLE, 12" AFF. 125 V; 30A, WITH ISOLATED GROUND. HUBBELL # IG2610.
- DISCONNECT SWITCH
- RIGID STEEL CONDUIT, HOT DIPPED GALVANIZED (U.L. STANDARD #6) RUN CONCEALED IN CEILING OR WALL.
- SMOKE DETECTOR - CEILING MOUNTED

ELECTRICAL NOTES

1- UNLESS SPECIFICALLY NOTED OTHERWISE, ELECTRICAL OUTLETS ARE CONNECTED TO THE CIRCUITS WHICH ARE DESIGNATED AT THE END OF EACH CELL.

2- WHEN INSTALLING AND/OR REMOVING LIGHTING AND/OR RECEPTACLE OUTLETS; SPLICES AND/OR RECONNECTIONS IN THE UNDERFLOOR SYSTEM SHALL BE MADE IN THE HEADER DUCT ONLY. CONTRACTOR SHALL INSTALL TWO WIRES FROM EACH RECEPTACLE OR LIGHTING FIXTURE BOX ASSEMBLY TO THE HEADER DUCT. ALL UNUSED WIRING BETWEEN THE REMOVED OUTLETS AND HEADER DUCT IS TO BE REMOVED BY THE CONTRACTOR.

3- ALL CONDUITS TO HAVE A MINIMUM OF 2 #12 WIRES (UL STANDARD #83), AND SHALL BE A MINIMUM OF 3/4" UNLESS OTHERWISE NOTED.

4- ALL DEVICE PLATES FOR WALL OUTLETS SHALL BE BRUSH SATIN FINISH, ANODIZED ALUMINUM. DEVICE PLATES FOR TELEPHONE OUTLETS SHALL CONTAIN A BUSHED HOLE.

5- ALL OUTLETS AND CEILING BOX ASSEMBLIES THAT ARE BEING REMOVED AND NOT RE-USED ARE TO BE RETURNED TO THE ENGINEER.

6- FOR ELECTRICAL SPECIFICATIONS SEE DRAWING E-1.

7- THE AUTHORITY WILL FURNISH AND INSTALL THE METERS. THE CONTRACTOR SHALL FURNISH AND INSTALL METER PANS, DELTA METAL PRODUCTS CAT. No. NQ7IN, IN ELECTRIC CLOSET.

8- AC UNIT SHALL BE WIRED COMPLETE WITH ALL ACCESSORIES WHETHER OR NOT SUCH ITEMS ARE INDICATED.

SMOKE DETECTION SPECIFICATIONS

1.01 General Description

1. Furnish and install a complete smoke detection system and all associated equipment required for proper operation as specified herein and as shown on the contract drawings.
2. All equipment shall be accompanied by complete service notes of the manufacturer and drawings detailing all interconnections.
3. The system shall conform to the requirements of the fire department of the City of New York Fire Prevention Directive 3-74.
4. All wiring shall be as shown on the contract drawings and as required for proper operation and interconnection of all equipment.
5. All wires and cables and equipment shall be approved by the Board of Standard of Appeals of the City of New York.
6. Additional or larger wires, or equipment, if required for proper operation, shall be furnished without extra charge.

1.02 Shop Drawings

1. Prior to fabrication, prepare and submit for approval, shop drawings, wiring diagrams and catalog cuts, including complete block diagram showing number and type of components to be furnished.

1.03 System Operation

1. The circuit shall be arranged so that any grounds or shorts in any wiring will cause a visual trouble indication of the control cabinet.
2. The detection system protected area shall consist of the computer and data processing room.
3. When a detector operates the following shall occur:
   a) The alarm and zone indication lights shall operated at the control panel.
   b) The alarm bell shall sound.
   c) The associate room fans and air conditioning units shall shut down and dampers shall operate.
   d) THE ELECTRICAL SUPPLY TO ALL COMPUTER AND TERMINAL UNITS SHALL BE DEACTIVATED.

2.01 Products

1. The smoke detection system shall be "System 3" manufactured by Pyrotronics. No substitutions will be allowed for the Pyrotronics equipment specified herein.
2. The control panel shall be model CP-30.
3. The smoke detector shall be model DI-4.
4. The supplementary relay shall be model SR-30.
5. A sealed gelled electrolytic type battery shall be provided for standby power and maintained using model BC-30 battery charger/transfer module.

2.02 Wiring

1. All wires and cables shall be multiconductor type Teflon insulated with Teflon jacket. Cable shall be marked "Fire Alarm Service" at regular intervals throughout its length and approved for use in Class "E" fire alarm systems. Wiring in hung ceiling can be installed without conduit. In all other areas wiring shall be installed in conduit.

3.01 Execution

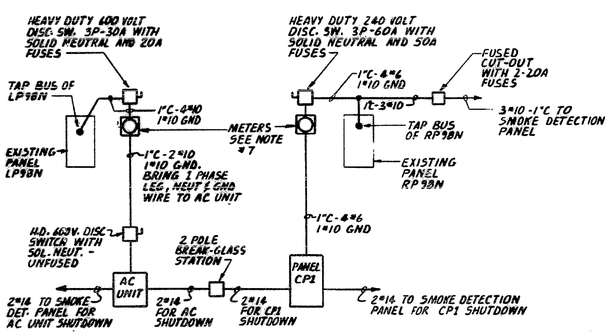
1. Install the smoke detection system in accordance with contract drawings and as specified herein.
2. The system shall be complete with boxes, etc., regardless of whether or not such items are indicated or furnished with the equipment.

3.02 Field Tests

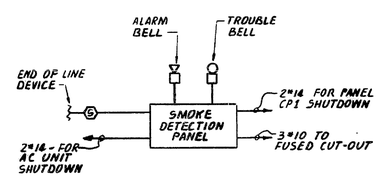
1. After installation, system performance tests, including calibration, shall be conducted by a qualified person certified by Pyrotronics and serviceman performing the test shall have a certification card at the time the test is performed.
2. The contractor shall have the test procedure submitted to the architect for approval.
3. The test shall be witnessed by the architect and shall continue until his satisfaction.

PANEL 'CP1' 208/120 V, 3φ, 4 W, 60 A. MAINS, 50A SHUNT-TRIP M.C.B. & GND. BUS

CKT No	TRIP	POLE	SERVICE
2	30	1	CENTRAL SYSTEM - CPU
4	20	1	PRINTER
6	20	1	TERMINAL & MATRIX PRINT.
1, 3, 5, 7, 8			BLANK SPACES



ONE - LINE DIAGRAM



SMOKE DETECTION BLOCK DIAGRAM

CONTRACT NYC 377.897
TCA/TAA NO. 2702
DATE APPROVED 12.28.83

CAMERON GENERAL CORPORATION
ONE WORLD TRADE CENTER 98th FLOOR
NEW YORK, N.Y. 10048

ELECTRICAL PLAN

JOHN C. WESTRICK & ASSOCIATES
CONSULTING ENGINEERS
3148 PARK AVENUE
SOUTH PLAINFIELD, N.J. 07080

SCALE: NONE | DWN BY: V.V.
DATE: 11-10-83 | CHK'D BY: J.C.W.

E-2